

App. No.: Unknown  
Filed: Herewith

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant	:	Licheng Zeng	)
Appl. No.	:	Unknown	)
Filed	:	Herewith	)
For	:	PARSING SYSTEM	)
Examiner	:	Unknown	)
Group Art Unit	:	Unknown	)
<u>Attorney Docket No.</u>	:	<u>WDUMR-022US</u>	)

**PRELIMINARY AMENDMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Please amend the above-entitled application as detailed below. No new matter has been added.

**In the Claims:**

Please amend Claims 3,10, 19-21, 24 and 29-35 as follows:

3. (Amended) A knowledge base for use in association with the system of Claim 1, said knowledge base analyzing said data at one or more predefined levels of analysis.

10. (Amended) The knowledge base of Claims 8 wherein said linguistic theory enables the complete representation of all possible forms of said data.

19. (Amended) The method of Claim 13 wherein a best-first searching algorithm is utilized.

20. (Amended) The method of Claim 13 wherein a look-ahead algorithm is utilized.
21. (Amended) The system of Claim 1 wherein an inference strategy is utilized.
24. (Amended) The system of Claim 22 further including a temporary data store associated with said parser engine.
29. (Amended) The system of Claim 22 wherein said knowledge base includes knowledge about the information structures of identifying attribute objects.
30. (Amended) The system of Claim 22 wherein said knowledge database includes knowledge about an association between patterns and the identifying attribute objects they represent.
31. (Amended) The system of Claim 22 wherein a precedence of alternative solutions has been precompiled in said knowledge database thereby to allow best-first searching to be performed by said parser engine.
32. (Amended) The system of Claim 22 wherein said parser engine utilizes a best-first searching algorithm.
33. (Amended) The system of Claim 22 wherein said parser engine utilizes a look-ahead algorithm.

34. (Amended) The system of Claim 22 wherein said parser engine utilizes an inference strategy.
35. (Amended) The system of Claim 1 wherein said data comprises attribute data.

Please add the following new Claims:

37. (New) The system of Claim 22 wherein said data comprises attribute data.
38. (New) The system of Claim 37 wherein said attribute data comprises name and address data.

Remarks

Attached hereto is a marked-up version of the changes made to the claims by the current Preliminary Amendment. The attached page is captioned "Version with Markings to Show Changes Made."

Respectfully Submitted,

Stetina, Brunda, Garred & Brucker

Dated: 6/15/01

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

Claims 3, 10, 19-21, 24 and 29-35 have been amended as follows:

3. (Amended) A knowledge base for use in association with the system of Claim 1 ~~or Claim 2~~, said knowledge base analyzing said data at one or more predefined levels of analysis.
10. (Amended) The knowledge base of Claims 8 ~~or 9~~ wherein said linguistic theory enables the complete representation of all possible forms of said data.
19. (Amended) The method of ~~any one of~~ Claims 13 ~~through to~~ 18 wherein a best-first searching algorithm is utilized.
20. (Amended) The method of ~~any one of~~ Claims 13 ~~to~~ 18 wherein a look-ahead algorithm is utilized.
21. (Amended) The system of ~~any one of~~ Claims 1 ~~to~~ 18 wherein an inference strategy is utilized.
24. (Amended) The system of Claim 22 ~~or Claim 23~~ further including a temporary data store associated with said parser engine.
29. (Amended) The system of ~~any one of~~ Claims 22 ~~through to~~ 28 wherein said knowledge base includes knowledge about the information structures of identifying attribute objects.

30. (Amended) The system of ~~any one of~~ Claims 22 through to 29 wherein said knowledge database includes knowledge about an association between patterns and the identifying attribute objects they represent.
31. (Amended) The system of ~~any one of~~ Claims 22 through to 30 wherein a precedence of alternative solutions has been precompiled in said knowledge database thereby to allow best-first searching to be performed by said parser engine.
32. (Amended) The system of ~~any one of~~ Claims 22 through to 31 wherein said parser engine utilizes a best-first searching algorithm.
33. (Amended) The system of ~~any one of~~ Claims 22 to 32 wherein said parser engine utilizes a look-ahead algorithm.
34. (Amended) The system of ~~any one of~~ Claims 22 to 33 wherein said parser engine utilizes an inference strategy.
35. (Amended) The system of Claim 1 or ~~Claim 2 or any one of Claims 22 to 34~~ wherein said data comprises attribute data.

New claims 37 and 38 have been added as follows.

37. (New) The system of Claim 22 wherein said data comprises attribute data
38. (New) The system of Claim 37 wherein said attribute data comprises name and address data.